

Sponsored by the University of Maryland at College Park
 US Particle Accelerator School, June 16-27, 2008, Annapolis, Maryland

Course Instructors: John J. Barnard (JB) and Steven M. Lund (SL), Lawrence Livermore National Laboratory
 Recitations and Grading: Christos Papadopoulos (CP), University of Maryland

Monday 6/16		Tuesday 6/17		Wednesday 6/18		Thursday 6/19		Friday 6/20		
9:00 am	Class Organization Introduction Envelope Equations JB	Envelope Equations Current Limits JB		Injectors/Longitudinal Beam Physics I JB		Longitudinal Beam Physics II JB		Longitudinal Beam Physics III JB		
- 10:30 am		Transverse Particle Equations of Motion II SL		Transverse Distribution Functions SL		Transverse Distribution Functions II SL		Resonances SL		
10:30 am	Lunch		Lunch		Lunch		Lunch			
- 12:00 noon	Transverse Particle Equations of Motion I SL		Transverse Particle Eqns. of Motion II SL		Tran. Dist. Functions I SL		Tran. Dist. Funcs. II SL		Simulation Techniques I SL	
- 12:00 noon - 1:00 pm	Lunch		Lunch		Lunch		Lunch		Lunch	
1:00 pm	Carry Over		Carry Over		Carry Over		Carry Over		Carry Over	
- 2:00 pm	+ Recitation CP		+ Recitation CP		+ Recitation CP		+ Recitation CP		+ Recitation CP	
2:00pm										
- 3:00 pm										
3:00 pm										
- 4:00 pm										
4:00 pm										
6:00 pm - ?	Homework 1		Homework 2		Homework 3		Homework 4		Homework 5	

Monday 6/23		Tuesday 6/24		Wednesday 6/25		Thursday 6/26		Friday 6/27		
9:00 am	Modes in Continuous Focusing and Halo Focusing and Halo JB	Pressure/Scattering/ Electron Effects JB		Heavy Ion Fusion/ Final Focusing JB		Review of Material JB		To Be Determined		
10:30 am		Transverse Centroid and Envelope Equations SL		Transverse Kinetic Stability I SL		Simulation Techniques II SL		Final Exam Review JB/SL/CP		
10:30 am	Lunch		Lunch		Lunch		Lunch			
- 12:00 noon	Lunch		Lunch		Lunch		Lunch			
12:00 noon	Tran. Cen. Env. Eqns. I SL		Tran. Cen. Env. Eqns. II SL		Tran. Kin. Stability II SL		Simulation Techs. III SL			
- 1:00 pm	Carry Over		Carry Over		Carry Over		Carry Over			
1:00 pm	+ Recitation CP		+ Recitation CP		+ Recitation CP		+ Recitation CP			
- 2:00 pm										
2:00pm										
- 3:00 pm										
3:00 pm										
- 4:00 pm										
6:00 pm - ?	Homework 6		Homework 7		Homework 8		Take-home final			

Carry Over: Over time lectures will be caught up prior to the Recitation to avoid falling behind schedule
 Homework: Collaboration with other students in class and hints from grader or instructors are allowed. (80% of grade)
 Take-Home Final: No collaboration allowed (20% of grade)